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10/054,103	10/25/2001	Benjamin J. Parker	1689 (15724)	3674
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SPRINT COMMUNICATIONS COMPANY L.P.			BATES, KEVIN T	
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OVERLAND	PARK, KS 66251-2100	2155		
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Please find below and/or attached an Office communication concerning this application or proceeding.

<u>.</u>		
	Application No.	Applicant(s)
Office Action Commence	10/054,103	PARKER ET AL.
Office Action Summary	Examiner	Art Unit
	Kevin Bates	2155
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>06 M</u> 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) □ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o		
Application Papers		
9) The specification is objected to by the Examine	ır.	
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	epted or b) objected to by the I	Examiner.
Applicant may not request that any objection to the	* ' '	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		Patent Application (PTO-152)

Response to Amendment

This Office Action is in response to a communication made on March 6, 2006.

Claims 1-7 are pending in the application

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sitaraman (6427170) in view of Middledorp (5341496).

Regarding claim 1, Sitaraman discloses a method of managing user connection sessions with a gateway in a computer network (Column 8, lines 23 – 28), said method comprising the steps of:

storing user data on said gateway in response authentication by said user (Column 8, lines 23 – 28);

storing user status information in a table in a RADIUS server during times that an authenticated user session is established with said gateway (Column 8, lines 29 – 38; Column 7, lines 8 – 12);

deleting said user status information from said table when said authenticated user session is terminated (Column 8, lines 32 – 38);

said gateway routing said user traffic in response to said user data (Column 7, line 65 – Column 8, line 12).

Sitaraman does not explicitly indicate detecting a failure of said gateway wherein said stored user data is lost;

said gateway sending a request to said RADIUS server to provide said user status information and user data corresponding to each user in said table; storing said user data on said gateway; and

said gateway routing said user traffic to continue said authenticated user session in response to said user data and said user status information without requiring reauthentication following said failure.

Middledorp teaches detecting a failure of said gateway wherein said stored user data is lost (Column 6, lines 38 - 41); said gateway sending a request to said server to provide said user status information and user data corresponding to each user in said table (Column 7, lines 10 - 13; Column 4, lines 55 - 63, where when a gateway fails, the objects that the gateway is managing are moved onto another gateway while the node is down, then when the gateway is restored it sends a message that the gateway is recovered and the objects it was managing are returned to the gateway); storing said user data on said gateway; and said gateway routing said user traffic to continue said user session in response to said user data and said user status information without requiring re-authentication following said failure (Column 4, lines 55 - 62).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Middledorp's teaching of network node recovery in Sitaraman's system in order to allow Sitaraman's system to recover from faults without having any downtown on the communication sessions.

Art Unit: 2155

Sitaraman also does not explicitly indicate that the gateway and the RADIUS server a running on separate machines, but Sitaraman discloses that the preferred embodiment has them on running on the same machine, but has different embodiments which they could be located on separate machines (Column 7, lines 7 – 10).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the gateway and RADIUS server on separate machines according to a possible embodiment in Sitaraman's disclosure in order to allow restarting of systems in case of failure without affecting the RADIUS server (Grant, Column 2, lines 46 – 65).

Regarding claim 2, Sitaraman discloses the method of claim 1, wherein said user status information includes an IP address assigned to said user for said session (Sitaraman, Column 8, lines 35 – 38).

Regarding claim 3, Sitaraman discloses the method of claim 1.

Sitaraman does not explicitly indicate said detecting step is comprised of a power-up initialization.

Middledrop discloses a system which detecting a failure happens when any type of failure occurs, the monitor realizes any type of failure has occur, then goes into the steps of recovery from said failure (Column 4, lines 43 – 47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Middledorp's teaching of network node recovery in Sitaraman's system in order to allow Sitaraman's system to recover from faults without having any downtown on the communication sessions.

Art Unit: 2155

Regarding claim 4, Sitaraman discloses the method of claim 1.

Sitaraman does not explicitly indicate the step of requesting said RADIUS server to provide said user status information and said user data is included in a boot-up sequence of said gateway.

Middledorp discloses that the request is made to recover the connection information in response to the recovery or reboot of the gateway (Column 7, lines 10 – 13; Column 4, lines 55 – 63).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Middledorp's teaching of network node recovery in Sitaraman's system in order to allow Sitaraman's system to recover from faults without having any downtown on the communication sessions.

Regarding claim 5, Sitarama discloses the method of claim 1.

Sitarama does not explicitly indicate that said user data comprises a host object and a connection object.

Middledorp discloses that said user data comprises a host object (Column 4, lines 3 - 12) and a connection object (Column 4, lines 30 - 49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Middledorp's teaching of network node recovery in Sitaraman's system in order to allow Sitaraman's system to recover from faults without having any downtown on the communication sessions.

Regarding claim 6, Sitarama discloses the method of claim 5.

Art Unit: 2155

Sitarama does not explicitly indicate said step of storing user status information in the table is delayed until a connection object is created for said user.

Middledrop discloses a system in which said step of storing user status information in the table is delayed until a connection object is created for said user (Column 5, lines 1-20, where both connection and host objects are stored together in the same data structure and updated in the status table together).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Middledorp's teaching of network node recovery in Sitaraman's system in order to allow Sitaraman's system to recover from faults without having any downtown on the communication sessions.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sitaraman in view of Middledorp as applied to claims 1-6 above, and further in view of Zhang (6253327).

Regarding claim 7, Sitaraman discloses the method of claim 1.

Sitaraman does not explicitly indicate that said gateway is comprised of a service selection gateway.

Zhang discloses a gateway coupled to an AAA server (Column 6, lines 5 - 15). Zhang teaches that the gateway should be a service selection gateway (Column 5, lines 23 - 32).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Zhang's teachings in Sitaraman's disclosure in order to use

Art Unit: 2155

a protocol gateway that is able to give the client single sign in access to multiple domains and destinations (Column 5, lines 26 – 32).

Response to Arguments

Applicant's arguments filed March 6, 2006 have been fully considered but they are not persuasive.

The applicant argues that the reference Sitaraman in combination with Middledorp, does not disclose the claimed invention. More specifically that Sitaraman does not disclose storing user information on a separate system from the gateway in order to be still available if a fault occurs on the gateway and that Middledorp, does not disclose user information, thus cannot disclose recovering user information. The examiner disagrees, Sitaraman teaches the idea of storing user information separately from the gateway server (whether on a separate application on the same server or on a separate server, Column 8, lines 28 - 38, Column 7, lines 8 - 12), but does not disclose the idea of using this separation as a fault recovery system. Middledorp teaches a gateway system with fault tolerance (Column 1, lines 42 – 52), as part of his gateway system, it is discloses that the information that the gateway is using to maintain information sessions between network nodes is stored redundantly, and when a failure occurs the system uses this information redundancy and proceeds to find and restore the session information onto the recovered gateway device and proceed to operate the same user sessions, without having to reestablish the connections (Column 4, lines 55 - 62). The reference are analogous because they both refer to a gateway system that handles communication sessions and updates and stores the session information in a

Art Unit: 2155

separate location. Plus Middledorp has the added teaching of using the redundant information to restore the user sessions at a failed gateway to speed up the recovery possible, so the combination is proper due to the analogous art and the motivation to combine.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2155

Page 9

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KB

KB April 17, 2006

SUPERVISORY PATENT EXAMINER